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## JAPANESE PATENT OFFICE

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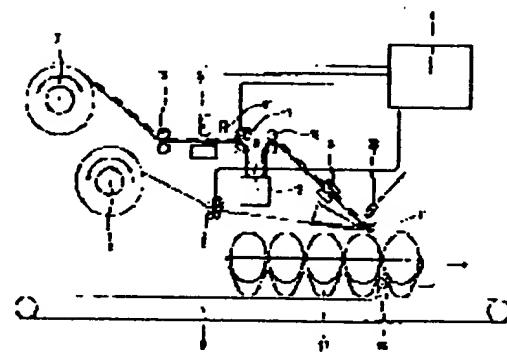
**NANBU KUNIO**

**(54) LABEL PRINTING AND LABELING APPARATUS FOR EGG**

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To facilitate change in interval for labeling articles to be labeled and carried in a plurality of lines so as to speed up conveying speed of the articles by installing separately a printing driving device and a labeling device, and stocking the specified number of sheets of printed labels under a condition without tension.

**SOLUTION:** A print feed means 1 for printing labels and a labeling feed means 2 for labeling eggs, etc., are separately installed and a release paper on which printed labels are stucked located between two running means is held under a condition with no tension at a relaxing part 5. In addition, the number of sheets of labels stucked on the eggs, etc., are counted by a stucked label detector 22 and a controlling device 4 for controlling a printing means 3 and the print feed means 1 in such a way that the number of sheets of the printed labels existing between two running means are always const. In addition, a tape regulating guide 12 for changing the center of running of a printed release paper into the width of carrying row of articles to be labeled after a plurality of rows of labels are printed, is provided.



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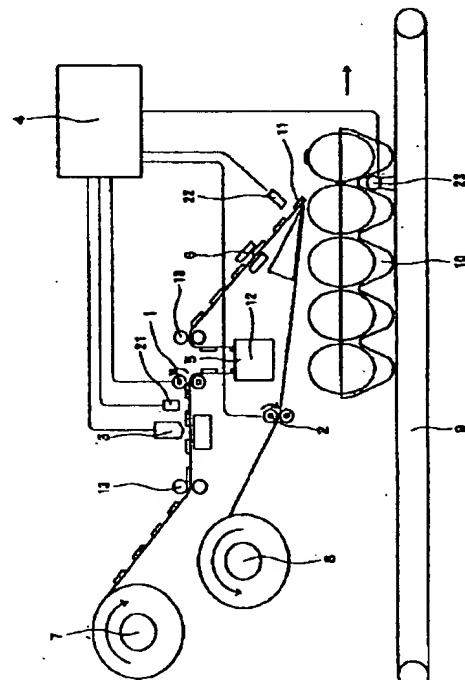
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(54)【発明の名称】 鳥卵等のラベル印字貼付装置

(57)【要約】

【目的】 鳥卵等の物品に印字ラベルを貼り付けるラベル印字貼り付け装置であって、印字駆動装置と貼り付け駆動装置を別途装備し、印字後のラベルを所定枚数無張力の状態でストックし、前記ストックしたラベルの貼り付けによる消費枚数をカウントする手段を有し、一定枚数の消費を検出する毎に印字駆動装置をして一定枚数のラベルに連続印字を行い前記ストック量を常に必要ラベル枚数確保するラベル印字貼り付け装置であり、前記無張力状態でストックしている部分において、ラベルの走行軸芯を変更する規制ガイドを設けラベル走行軸芯を変更することが可能なラベル印字貼り付け装置。

【構成】 ラベル印字駆動装置と印字済ラベルストック部とラベル走行規制ガイドとラベル貼り付け駆動装置とからなる鳥卵等のラベル印字貼り付け装置。



【0013】ここで印字送り出し装置の動作は複数枚のラベルを連続印字するように制御されており、貼付送り出しの駆動は被貼付物品1個あたり1回の送り出し動作をする毎に停止するよう制御されている。このことにより印字送り出しの走行速度を張り付け送り出しの走行速度に比して遅い速度で走行させることが実現する。

【0014】印字手段を連続動作させ一定枚数のラベルに文字や記号等を印字するように制御することによって印字手段の限界速度に制限されずに、より高速で印字済ラベルを送り出すものである。また貼り付け送り出し動作の動作回数を計数することによって弛緩部分(5)で消費したラベル枚数を遅れることなく補充するものである。

#### 【実施例】

【0015】実施例について図面を参照して説明すると、図1において搬送コンベア(9)で搬送されてくる10個詰め鶏卵パック10のラベル貼り付け部への到来が卵検出器(23)によって検出される。

【0016】制御装置(4)は卵検出器(23)からの検出信号を受けて貼り付け送り手段(2)を駆動し1枚分のラベルを送り出す。前記1枚のラベルは貼り付け部(11)からその粘着面を下にして搬送コンベア(9)の搬送速度に概略等しい速度でかつ卵の頂上面がラベルに到来するタイミングで送り出されるよう制御されているので送り出されたラベルの粘着面が卵の頂上に貼り付けられる。

【0017】貼り付け送り手段(2)はラベル検出器(22)が1枚分のラベル送りを検出すると送り動作を停止し、次の卵検出信号が卵検出器(23)から入力されるのを待つ。制御装置は前記1枚のラベル送り出しを開始すると同時に制御装置内部に用意された貼り付け枚数計数器に1を加算する。

【0018】前記ラベルの貼り付けが5枚目のラベルの貼り付けを開始すると同時に制御装置は弛緩部(5)にストックしていたラベルの補充をすべく印字手段(3)と印字送り手段(1)とを動作させ連続して5枚のラベルに対して所定の文字記号を印字する。

【0019】剥離紙の巻取り手段(8)は常時一定の張力で剥離紙を巻き取る様に駆動されており貼り付け部(11)でラベルが剥離された後の剥離紙が巻き取られる。

【0020】本実施例では2列のラベルテープの印字に対して2組の印字手段(3)が約20ミリの幅で密着して並列配置されており、印字後のテープが弛緩状態にある弛緩部(5)に前記20ミリの中心間距離を有した2列のテープを2列の鶏卵の頂上幅である47ミリに広げるべく規制ガイド(12)が設けられている。規制ガイド(12)で鶏卵の頂上幅に広げられたそれぞれのラベルは貼り付け部(11)で一定の張力を得るためにフェルトで押し圧された抵抗体(6)をくぐるよう構成されている。

#### 【0021】

【発明の効果】本発明は、以上説明したように構成されているので、以下に記載されるような効果を奏する。

【0022】ラベルの貼り付け動作は被貼り付け物品の到来に対応して同物品の搬送速度と近似の速度でラベルを送り出す必要がある。また個々の物品に1枚づつのラベルを貼り付けるためその送り出しは間欠動作である。

【0023】本発明の装置にあっては弛緩部分に一定枚数以上の印字済ラベルを常にストックしておくように構成されており、高速動作を必要とする貼り付け送り出しには前記ストックした印字済ラベルを使用するようになっている。また印字装置の性能に直接影響される印字時のラベル走行速度は別途用意された印字用の駆動手段によって駆動するよう構成されている。

【0024】前記印字時のラベル走行速度は、本発明においては所定枚数を連続印字するよう制御されているので、所定枚数の連続印字の時間内に間欠動作するラベルの貼り付け送り枚数が印字枚数を上回らない範囲で高速化することが可能であり、被貼り付け物品の高速搬送に対して対応することが出来る。

【0025】また、弛緩部(ストック部)でのストック量を計測するのに印字済ラベル枚数から貼り付け枚数を差し引くことによって行っており、特別に検出装置を用意する必要がなくこの間テープを事実上無張力に保つことが可能でありこのことによりストック部でのテープの走行間隔を変更することが実現した。

【0026】前記ストック部でのテープ走行間隔変更は複数列搬送される被貼り付け物品への貼り付け間隔変更を用意にならしめるものであり、貼り付け間隔が大きくなれば複数列搬送されて来る被貼り付け物品へのラベル貼り付けを1台の本発明装置で実現するものである。

【0027】また前記ストック部でのラベルの減少を前記差引計算で行うことにより所定枚数のラベルの貼り付け送り出し開始と同時に所定枚数の消費を検出することが可能となり、印字装置をして印字済ラベルの補充をすみやかに開始することが可能となり被貼り付け物品の搬送速度の高速化に対応することが可能となつた。

#### 【図面の簡単な説明】

【図1】本発明の一具体例を図示した全体の側面図である。

【図2】本発明の一具体例を図示した全体の平面図である。

【図3】本発明の制御装置のブロック図である。

#### 【符号の説明】

- 1 印字送り手段
- 2 貼り付け送り手段
- 3 印字手段
- 4 制御手段
- 5 弛緩部分(ストック部分)
- 6 抵抗体

## 【特許請求の範囲】

【請求項1】 剥離紙に連続して等しい間隔で貼り付けられた粘着ラベルに日付や文字記号等を印字手段(3)で印字し前記個々の粘着ラベルを個々の鶏卵、果実または容器等に貼り付けるラベル印字貼付装置であって、印字手段(3)は印字送り手段(1)で送られるラベルに同期して文字記号等を印字し、印字済ラベルをラベル要求信号に対応して1枚づつ剥離紙から剥離する貼り付け送り手段(2)を有し、貼り付け送り手段(2)のラベル送り出し枚数が2枚以上の所定枚数のラベルを送り出す毎に前記消費した所定枚数の印字済ラベルを補給すべく印字送り手段(1)と印字手段(3)を制御してラベルに連続印字する制御手段(4)を備えたことを特徴とする鶏卵等のラベル印字貼り付け装置。

【請求項2】 剥離紙に連続して等しい間隔で貼り付けられた粘着ラベルに日付や文字記号等を印字手段(3)で印字し前記個々の粘着ラベルを個々の鶏卵、果実または容器等に貼り付けるラベル印字貼付装置であって、印字手段(3)は印字送り手段(1)で送られるラベルに同期して文字記号等を印字し、印字済のラベルを所定枚数以上ストックする弛緩部(5)を有し弛緩部(5)にストックされている印字済ラベルをラベル要求信号に対応して1枚づつ剥離紙から剥離する貼り付け送り手段

(2)を有し、貼り付け送り手段(2)のラベル送り出し枚数が2枚以上の所定枚数のラベルを送り出す毎に前記弛緩部(5)の消費した所定枚数の印字済ラベルを補給すべく印字送り手段(1)と印字手段(3)を制御してラベルに連続印字する制御手段(4)を備えており、前記弛緩部(5)において印字送り手段(1)から送り出されてくる剥離紙の走行軸芯を横方向に変更するテーブル規制ガイド(12)を設けたことを特徴とする鶏卵等のラベル印字貼り付け装置。

【請求項3】 請求項2にあって印字手段(3)に供給されるラベル付き剥離紙が第1の走行間隔で複数列供給されており、かつ印字済ラベルを貼り付け送り出しする際の前記複数の剥離紙は第2の走行間隔を有し、それぞれの列の貼り付け送り出し回数を独立して計数し対応するラベル列に対して消費した所定枚数のラベルの連続印字を行う制御手段(4)を備えたことを特徴とする鶏卵等のラベル印字貼り付け装置。

## 【発明の詳細な説明】

## 【0001】

【産業上の利用分野】 本発明は鶏卵、果実等の物品に品質表示、日付品質表示等の印字ラベルを印字しながら貼り付けるラベル印字貼り付け装置に関するものである。

## 【0002】

【従来の技術】 鶏卵の産卵日表示にあってはいわゆるパック詰めされた鶏卵のそれぞれに日付印字した粘着ラベルが貼り付けられている。それらは鶏卵をパック詰めしたのち長手方向にコンベア上を搬送させ印字貼付装置で

は貼り付け送り出しに同期してラベルへの印字を行っているものであった。

## 【0003】

【発明が解決しようとする課題】 本発明は印字手段を高速化することなく、貼り付け部の高速化を図るものである。

【0004】 本発明は2列で搬送される鶏卵等一定の幅をもって設置されている複数列のラベル貼り付け手段に對して前記貼り付け手段相互間の間隔と異なった間隔で印字手段を設けることが可能なラベル印字貼り付け装置を提供することを目的としている。

## 【0005】

【課題を解決するための手段】 上記目的を達成するため、本発明の装置においては、ラベルに印字するための印字送り手段とラベルを鶏卵等の物品に貼り付けるための貼り付け送り手段を別個に設け前記2つの走行手段の間にある印字済ラベルの付いた剥離紙を弛緩状態、即ち、たるました状態に保持したものである。

【0006】 また鶏卵等の物品に貼り付けたラベルの枚数をカウントし前記2つの走行手段の間に存在する印字済ラベルの枚数が常に一定数以上存在する様に、印字手段と印字の為のラベル走行手段(印字送り手段)を制御する制御装置を設けたものである。

【0007】 また剥離紙の幅で並列走行する複数列のラベルに印字した後、被貼り付け物品の搬送列幅に前記印字済剥離紙の走行中心を変更するための規制部材を前記2つの走行手段の間に設けると効果的である。

【0008】 そして、印字手段はドットプリンターやインクジェットプリンターの印字ヘッド部を用いるのが良く、被印字体であるラベルの印字送り手段に同期して動作させると良い、前記印字送り手段の駆動源はパルスマーターやサーボモーターを用いるのが良い。

【0009】 また、貼り付け送り手段の駆動源は被貼り付け物品の到来に応じて頻繁な間欠動作と急発進、急停止を行うためパルスマーターやサーボモーターを使用すると良い結果が得られる。

## 【0010】

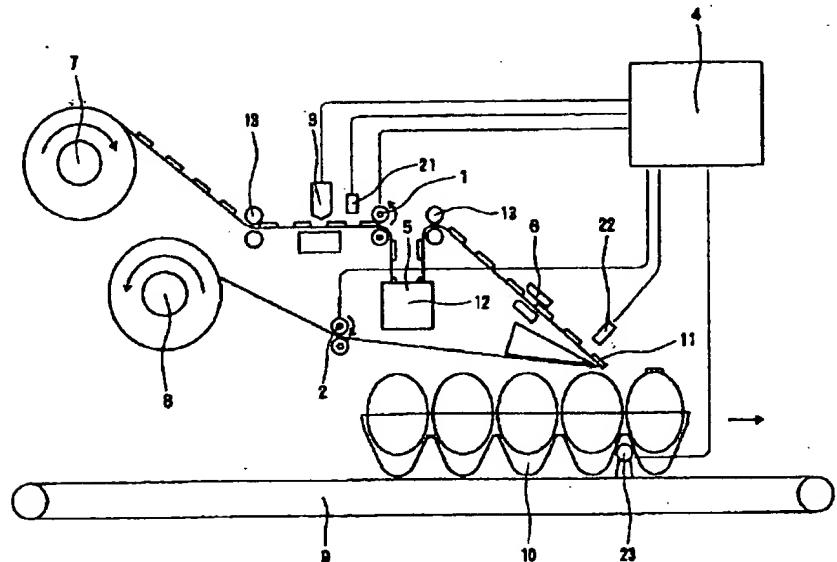
【作用】 上記の様に構成されたラベル印字貼り付け装置は初期状態において弛緩部分(5)に定められた枚数の印字済ラベルを蓄えたのち使用を開始するようになる。

【0011】 上記装置においては、被貼り付け物品の到来に対応して貼り付け送り手段が動作し印字済のラベルを1枚づつ送り出し被貼り付け物品に貼付を行う。この貼付送り手段の駆動は間欠動作を行うものである。

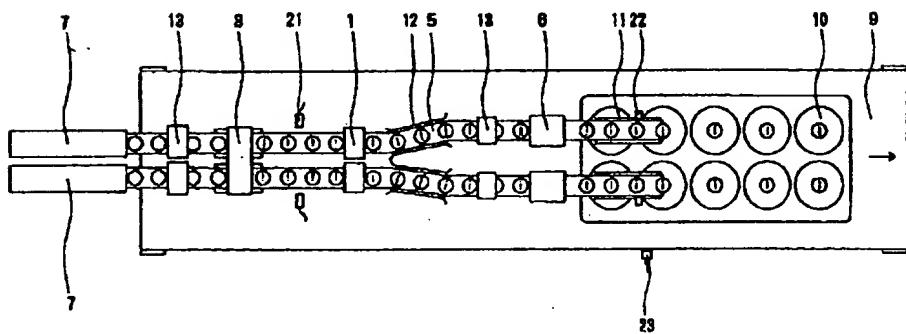
【0012】 制御装置に用意された貼付枚数の計数装置が一定の枚数のラベルの送り出しをカウントすると制御装置はラベルテーブル上に設置されている印字送り手段と印字手段を働かせ所定枚数のラベルに連続印字を行い前記弛緩部分(5)に存在するラベルを補充し常に一定以上のラベル枚数をストックするようになる。

7 テープ供給部	12 テープ規制ガイド
8 テープ巻取部	13 ガイドローラー
9 帯送コンベア	21 U字ラベル検出器
10 10個詰め鶏卵パック	22 貼り付けラベル検出器
11 貼り付け部	23 卵検出器

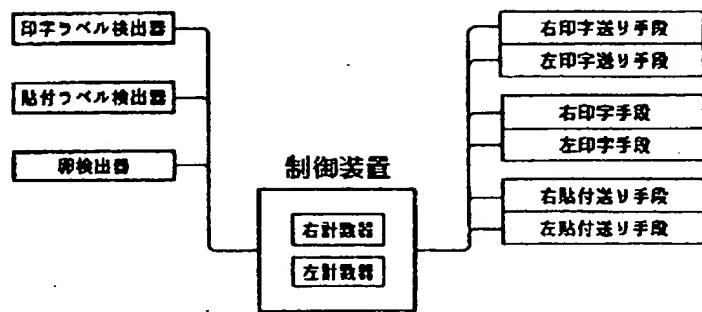
【図1】



【図2】



【図3】



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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the label printing attachment equipment stuck while printing printing labels, such as a quality display and the date quality display, on goods, such as a hen's egg and fruits.

[0002]

[Description of the Prior Art] If shown in the \*\*\*\* day display of a hen's egg, the pressure sensitive adhesive label which carried out the date stamp character to the so-called each of the hen's egg by which the tray pack was carried out is stuck. They were what a longitudinal direction is made to convey a conveyer top, sticks with printing pasting equipment, and is performing printing to a label synchronizing with the send, after carrying out the tray pack of the hen's egg.

[0003]

[Problem(s) to be Solved by the Invention] this invention attains improvement in the speed of the attachment section, without accelerating a printing means.

[0004] this invention aims at offering the label printing attachment equipment which can establish a printing means at the interval between the aforementioned attachment meanses, and a different interval to the label attachment means of two or more trains currently installed with fixed width of face, such as a hen's egg conveyed in two trains.

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, in the equipment of this invention, the releasing paper to which the printed label which prepares separately the attachment informer stage for sticking the printing informer stage and label for printing on a label on goods, such as a hen's egg, and is between the two aforementioned run meanses was attached is held to a relaxed state, i.e., the state where it was made to curtain.

[0006] Moreover, the control unit which controls a printing means and the label run means for printing (printing informer stage) is formed so that the number of sheets of the printed label which counts the number of sheets of the label stuck on goods, such as a hen's egg, and exists between the two aforementioned run meanses may always exist more than fixed numbers.

[0007] Moreover, it is effective if the specification-part material for changing the run center of the aforementioned printed releasing paper into the conveyance column width of stuck goods is prepared between the two aforementioned run meanses after printing on the label of two or more trains which carry out a parallel run by the width of face of a releasing paper.

[0008] And as for a printing means, it is good to use the print head section of a dot impact printer or an ink jet printer, and when it is made to operate synchronizing with the printing informer stage of the label which is the printed body, it is good [ the good driving source of the aforementioned printing informer stage ] to use a stepping motor and a servo motor.

[0009] Moreover, a good result will be obtained if a stepping motor and a servo motor are used in order that the driving source of the attachment informer stage may perform a frequent intermittent control action and frequent sudden start, and a quick stop according to arrival of stuck goods.

[0010]

[Function] The label printing attachment equipment constituted as mentioned above comes to start use, after storing the printed label of the number of sheets set to a part for the pars flaccida membranae tympani (5) in the initial state.

[0011] In the above-mentioned equipment, it sticks corresponding to arrival of stuck goods, the informer stage operates, and it sticks one label [ finishing / printing ] at a time on goods stuck / send /. The drive of this pasting informer stage performs an intermittent control action.

[0012] Whenever the counter of the pasting number of sheets prepared for the control unit counts the send of the label of fixed number of sheets, a control unit fills up the label which is made to commit the printing informer stage and printing means which are installed in the label tape upstream, performs continuation printing on the label of predetermined number of sheets, and exists in a part for the aforementioned pars flaccida membranae tympani (5), and comes to stock the label number of sheets more than fixed.

[0013] Operation of printing send equipment is controlled here to carry out continuation printing of two or more labels, and the drive of a pasting send is controlled to stop, whenever it carries out one send operation per stuck goods.

Sticking the travel speed of a printing send by this, and making it run at a late speed as compared with the travel speed of a send is realized.

[0014] It is begun more to send a printed label by controlling to carry out continuous action of the printing means, and to print a character, a sign, etc. on the label of fixed number of sheets, without being restricted to the critical speed of a printing means at high speed. Moreover, it supplies, without being behind in the label number of sheets consumed by part for the pars flaccida membranae tympani (5) by carrying out counting of the number of times of operation of attachment send operation.

[Example]

[0015] If an example is explained with reference to a drawing, arrival in the label attachment section of the ten-piece stuffing hen's egg pack 10 conveyed by conveyance conveyer (9) in drawing 1 will be detected by the egg detector (23).

[0016] A control unit (4) is stuck in response to the detecting signal from an egg detector (23), drives the informer stage (2), and sends out the label for one sheet. One aforementioned label turns the adhesive face down from the attachment section (11), an outline etc. is in it by making it the bearer rate of a conveyance conveyer (9), and the adhesive face of the label sent out since it was controlled to be sent out to the timing to which it is speed and the summit side of an egg arrives at a label is stuck on the top of an egg.

[0017] The attachment informer stage (2) will stop delivery operation, if a label detector (22) detects label delivery for one sheet, and it waits to input the following egg detecting signal from an egg detector (23). A control unit adds 1 to the attachment number-of-sheets counter prepared for the interior of a control unit at the same time it starts an aforementioned one label send.

[0018] A control unit operates a printing means (3) and the printing informer stage (1) that the label stocked in the pars flaccida membranae tympani (5) should be filled up, and prints a predetermined letter symbol to five labels continuously at the same time attachment of the aforementioned label starts attachment of the 5th label.

[0019] The releasing paper after it is driving the winding means (8) of a releasing paper so that a releasing paper may always be rolled round by fixed tension, and the label exfoliated in the attachment section (11) is rolled round.

[0020] In this example, the regulation guide (12) is prepared in the pars flaccida membranae tympani (5) which sticks, and the parallel arrangement is carried out to printing of the label tape of two trains by the width of face 2 sets of whose printing meanses (3) are about 20mm, and has a tape after printing in a relaxed state to open the tape of two trains with the 20 aforementionedmm pitch to 47mm which is the summit width of face of the hen's egg of two trains. In order to obtain fixed tension in the attachment section (11), each label which was able to be opened to the summit width of face of a hen's egg in the regulation guide (12) is constituted so that it may pass through the resistor (6) pushed and pressed with the felt.

[0021]

[Effect of the Invention] Since this invention is constituted as explained above, it does so an effect which is indicated below.

[0022] Attachment operation of a label needs to send out a label at the rate of the bearer rate of these goods, and approximation corresponding to arrival of stuck goods. Moreover, in order to stick every one label on each goods, the send is an intermittent control action.

[0023] If it is in the equipment of this invention, it is constituted so that the printed label more than fixed number of sheets may always be stocked in a part for the pars flaccida membranae tympani, and the printed label which carried out [ aforementioned ] the stock is used for the attachment send which needs high-speed operation. Moreover, the label travel speed at the time of printing directly influenced by the performance of a printer is constituted so that it may drive by the driving means for printing prepared separately.

[0024] Since the label travel speed at the time of the aforementioned printing is controlled to carry out continuation printing of the predetermined number of sheets in this invention, it can be accelerated in the range in which the attachment delivery number of sheets of the label which carries out an intermittent control action to within a time [ of

continuation printing of predetermined number of sheets ] does not exceed printing number of sheets, and can respond to high-speed conveyance of stuck goods.

[0025] Moreover, it is possible to carry out by sticking on measuring the amount of stocks in the pars flaccida membranae tympani (stock section) from printed label number of sheets, and deducting number of sheets, and for it not to be necessary to prepare detection equipment specially, and to maintain a tape at non-tension as a matter of fact in the meantime, and changing the run interval of the tape in the stock section by this was realized.

[0026] Tape run interval change in the aforementioned stock section is made to be that attachment interval change on the stuck goods by which two or more trains conveyance is carried out is prepared, and realizes label attachment on the stuck goods with which two or more trains conveyance of the attachment interval is carried out greatly by one set of this invention equipment.

[0027] Moreover, it became possible to become possible to detect consumption of predetermined number of sheets simultaneously with the attachment send start of the label of a predetermined number-of-sheets eye by decreasing the label in the aforementioned stock section by the aforementioned total calculation, to become possible to carry out a printer and to start a supplement of a printed label promptly, and to correspond to improvement in the speed of the bearer rate of stuck goods.

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[Translation done.]

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CLAIMS

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[Claim(s)]

[Claim 1] Label printing attachment equipments characterized by providing or including the following, such as a hen's egg. The date, a letter symbol, etc. are printed with a printing means (3) to the pressure sensitive adhesive label stuck at the equal interval succeeding the releasing paper. each aforementioned pressure sensitive adhesive label Each hen's egg, It is the attachment informer stage (2) which prints a letter symbol etc. synchronizing with the label with which it is label printing pasting equipment stuck on fruits or a container, and a printing means (3) is sent in the printing informer stage (1), and exfoliates a printed label one sheet at a time from a releasing paper corresponding to a label demand signal. Control means which control the printing informer stage (1) and a printing means (3) that the printed label of the predetermined number of sheets which carried out [ aforementioned ] consumption whenever the label send number of sheets of the attachment informer stage (2) sent out the label of two or more predetermined number of sheets should be supplied, and carry out continuation printing at a label (4)

[Claim 2] Label printing attachment equipments characterized by providing or including the following, such as a hen's egg. The date, a letter symbol, etc. are printed with a printing means (3) to the pressure sensitive adhesive label stuck at the equal interval succeeding the releasing paper. each aforementioned pressure sensitive adhesive label Each hen's egg, Are label printing pasting equipment stuck on fruits or a container, and a printing means (3) prints a letter symbol etc. synchronizing with the label sent in the printing informer stage (1). Attachment informer stage which exfoliates one sheet at a time the printed label which has the relaxation section (5) which stocks a label [ finishing / printing ] more than predetermined number of sheets, and is stocked by the relaxation section (5) from a releasing paper corresponding to a label demand signal (2) Controlled the printing informer stage (1) and the printing means (3) that the printed label of predetermined number of sheets which the aforementioned relaxation section (5) consumed whenever the label send number of sheets of the attachment informer stage (2) sent out the label of two or more predetermined number of sheets should be supplied, and the label is equipped with the control means (4) which carry out continuation printing. The tape regulation guide which changes into a longitudinal direction the run axis of the releasing paper sent out from the printing informer stage (1) in the aforementioned relaxation section (5) (12)

[Claim 3] Label printing attachment equipments characterized by providing or including the following, such as a hen's egg. Two or more aforementioned releasing papers at the time of two or more trains supply of the releasing paper with a label which is in a claim 2 and is supplied to a printing means (3) being carried out at intervals of the 1st run, and sticking, sending out and carrying out a printed label are the 2nd run interval. Control means which perform continuation printing of the label of the predetermined number of sheets which consumed the number of times of an attachment send of each train to the label train which carries out counting independently and corresponds (4)

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## DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] It is the side elevation of the whole illustrating one example of this invention.

[Drawing 2] It is the plan of the whole illustrating one example of this invention.

[Drawing 3] It is the block diagram of the control unit of this invention.

[Description of Notations]

- 1 Printing Informer Stage
- 2 Attachment Informer Stage
- 3 Printing Means
- 4 Control Means
- 5 A Part for Pars Flaccida Membranae Tympani (Stock Portion)
- 6 Resistor
- 7 Tape Feed Zone
- 8 Tape Winding Section
- 9 Conveyance Conveyer
- 10 Ten-Piece Stuffing Hen's Egg Pack
- 11 Attachment Section
- 12 Tape Regulation Guide
- 13 Guide Roller
- 21 Printing Label Detector
- 22 Attachment Label Detector
- 23 Egg Detector

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[Translation done.]